



Structural Biology of Phages

Guest Editors:

Prof. Christian Cambillau

Architecture et Fonction des
Macromolécules Biologiques,
Centre National de la Recherche
Scientifique (CNRS), Marseille,
France

Dr. Paulo Tavares

Department of Virology, I2BC,
CNRS, CEA, University Paris-
Saclay, 91190 Saint-Aubin, France

Deadline for manuscript
submissions:

closed (30 May 2022)

Message from the Guest Editors

The viruses that infect bacteria—bacteriophages or phages—are the most abundant biological entities on Earth. Phages play an important role in the dynamics of bacterial communities with implications for biogeochemistry, biomes, health (phage therapy), and industry. Phage virions exhibit a broad spectrum of structural morphologies: icosahedral, filamentous, tailed, and pleomorphic particles. Their assembly follows a defined program of sequential protein and protein–nucleic acid interactions. Infectious particles attach specifically to bacterial receptors belonging to various biochemical families, such as surface proteins, polysaccharides, and lipopolysaccharides. Therefore, understanding the structure–function relationship of phage particles and the complex dynamics of phage–host interactions is of much interest and requires the exploration of different phage/host couples in addition to the classical model systems.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology*)

Contact Us

Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI